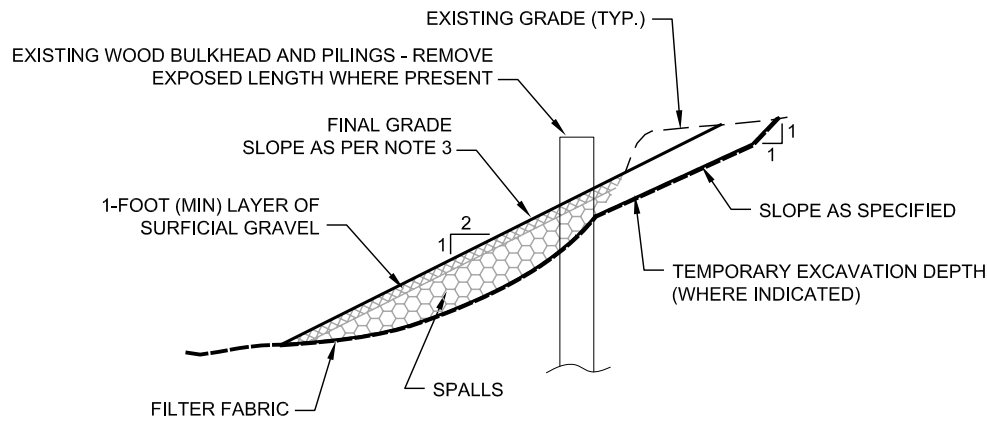
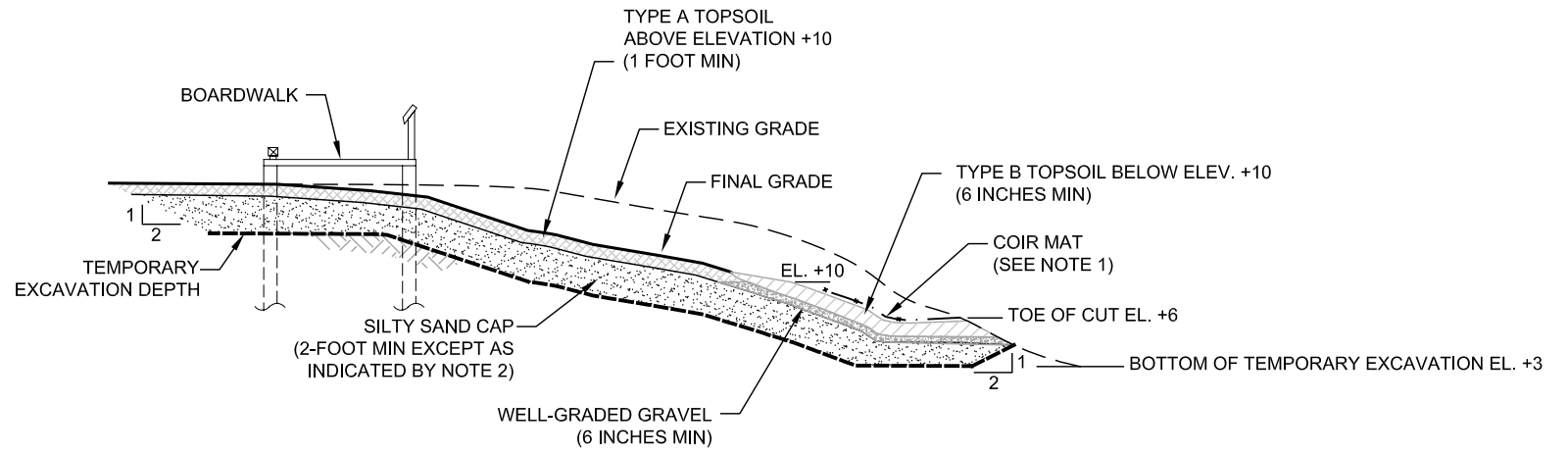


Feb 24, 2004 1:51pm cdavidson K:\Jobs\990062-Holly Street\99006204\100 PERCENT\HOL-99006204-58R1.dwg SHEET C-5



**A**  
C-2/C-5  
**ROCK BUTTRESS ON SOUTH BANK**  
NOT TO SCALE

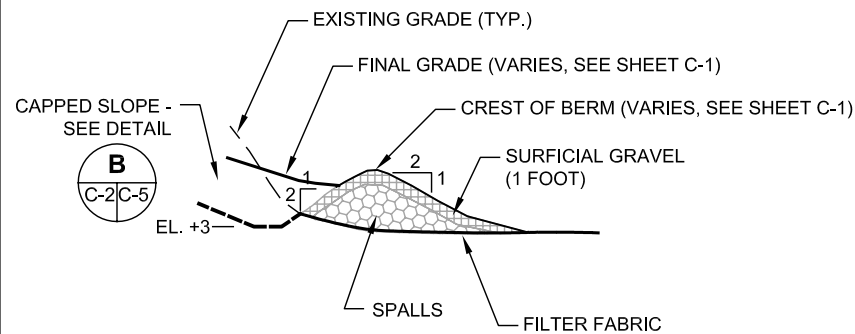
- NOTES:
1. EXCAVATE EXISTING BANK IN ORDER TO PROVIDE ROOM FOR AT LEAST 1-FOOT THICKNESS OF SPALLS
  2. IN AREA IDENTIFIED AS RIP-RAP ENERGY DISSIPATER FOR OUTFALL, PLACE RIP-RAP INSTEAD OF 1-FOOT LAYER OF SPALLS AND SURFICIAL GRAVEL.
  3. SLOPE ROCK BUTTRESS AT 2H:1V EXCEPT AS INDICATED ON SHEET C-1.



**B**  
C-2/C-5  
**CAPPED SLOPE ON NORTH BANK (TYP.)**  
NOT TO SCALE

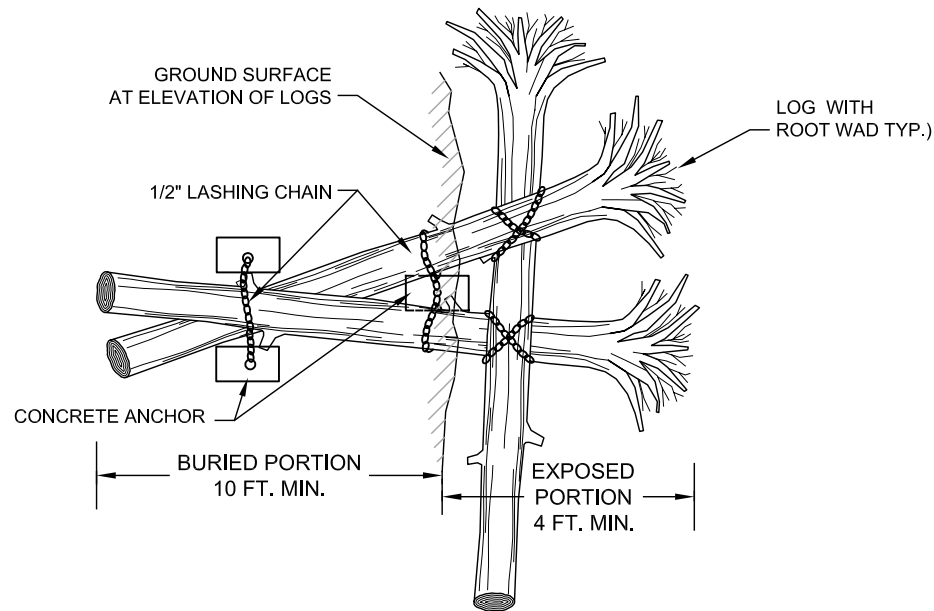
- NOTES:
1. PLACE COIR MAT OVER SURFACE OF TOPSOIL, IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS ON ALL SLOPES INCLINED AT 4H:1V OR STEEPER - SEE DETAIL
  2. SILTY SAND CAP SHALL BE 2 FEET THICK EXCEPT IN THE AREA INDICATED ON SHEET C-1, WHERE IT SHALL BE 2.5 FEET THICK.

**1**  
L-1



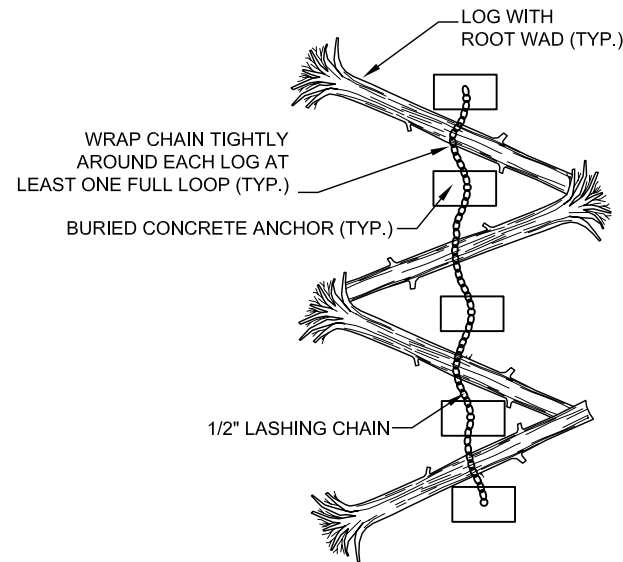
**C**  
C-2/C-5  
**GRAVEL BERM ALONG NORTH BANK**  
NOT TO SCALE

- NOTES:
1. LAY DOWN FILTER FABRIC ON EXISTING GRADE AND CONSTRUCT GRAVEL BERM AS INDICATED.
  2. EXCAVATE LANDWARD OF BERM TO ALLOW CONSTRUCTION OF CAP SECTION AT THE FINAL GRADES SPECIFIED.
  3. EXCAVATE NO DEEPER THAN ELEVATION +3.



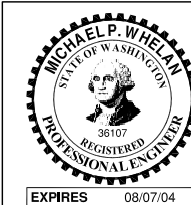
**D**  
C-1/C-5  
**ANCHORED LARGE WOODY DEBRIS STRUCTURE - (TYP.)**  
NOT TO SCALE

- NOTES:
1. WRAP CHAINS TIGHTLY AROUND EACH LOG AT LEAST ONE FULL LOOP.
  2. SET CONCRETE ANCHORS AT OR BELOW ELEVATION OF ADJACENT LOGS.
  3. BURIED PORTION OF LOGS SHALL BE AT LEAST 2 FEET DEEP (MIN.) AT THEIR ENDS.



**E**  
C-1/C-5  
**ANCHORED LARGE WOODY DEBRIS BARRIER**  
NOT TO SCALE

- NOTES:
1. SET CONCRETE ANCHORS AT OR BELOW ELEVATION OF ADJACENT LOGS AND FULLY COVERED BY AT LEAST ONE FOOT OF SOIL.



DRAFT FINAL 100% DESIGN SUBMITTAL  
NOT FOR CONSTRUCTION



**CITY OF BELLINGHAM**  
**OFFICE OF NEIGHBORHOODS**  
**& COMMUNITY DEVELOPMENT**

**HOLLY STREET**  
**LANDFILL/WHATCOM**  
**CREEK ESTUARY**  
**RESTORATION**

## GRADING DETAILS

DESIGNED PCH, MPW  
DRAWN SJD, CVD  
CHECKED CRP, GEG, EJB  
SCALE AS NOTED  
DATE FEBRUARY 2004

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**SHEET C-5**